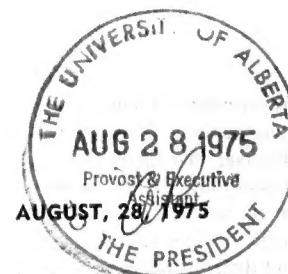


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# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA



## STIMULATE THE PHAGOCYTES!

Erstwhile readers of *Folio* might remember a small item which appeared in its "Personal Notices" section at the end of February 1974. It read:

Wanted—Cold sores, fever blisters. If you suffer from the misery of recurrent cold sores and would be prepared to help research in this field (related to causes and treatment), please contact Dr. Russell . . .

Well, the notice is going out once again, this time for a new trial. Dr. A. S. Russell,

Associate Professor of Medicine, wants cold sore sufferers to volunteer to help him test a drug which he thinks might be effective in treating, and perhaps eliminating, cold sores.

Referring to the way in which the drug—known as an antihelminthic—works, Dr. Russell said, "There's a book called *Doctor's Dilemma*, in which the author does a take-off on the medical profession. Well, in the book he has one doctor who is always saying 'stimulate the phagocytes!' whenever somebody's ill. It turns out that it's probably a good idea."

Phagocytes, Dr. Russell explained, are cells whose essential function is to "gobble up junk," be it from a virus or bacteria or whatever. "Phagocytes are necessary to obtain a good immune response. The material they've gobbled up is presented to the immune system, which then starts reacting." The role of the antihelminthic drug, in turn, is to stimulate the phagocytes.

What does the immune response have to do with cold sores? In an interview he did for the August 1974 issue of *New Trail*, Dr. Russell explained that the immune response is the term used to refer to the process by which the body fights disease. In most cases, when a foreign substance such as a virus is introduced to the body, the immune system sets up an antibody which works to destroy the virus and to prevent permanently its recurrence.

"Measles, for example, is a straightforward virus infection," said Dr. Russell. "Once you've had it, unless something goes radically wrong, you never get it again. You are immune to it, both in the clinical sense—that is, you don't get it again—and in the immunological sense, which is to say, tests will show that body cells have been 'sensitized' to the measles virus. The immune response is there."

Yet some types of infections, including that of the virus *herpes simplex* (cold sores), do

not seem to exhibit the immune response. This, as Dr. Russell discovered in his tests, was not true. "All patients with cold sores have a very good immunity in the laboratory sense [the immune response is present] but they're not immune clinically—they do get cold sores. But in the strictly laboratory sense we can show that their leukocytes [blood cells] and their blood proteins are all programmed to attack the virus perfectly."

Later research showed that the probable reason for the lack of response was that protein antibodies, although programmed to attack the virus, were ineffective and for some reason prevented the far more effective leukocytes from doing their job. "In other words," commented Dr. Russell, "your own antibodies which you produce yourself are preventing your recovery." This process, known as "blocking," was the subject of Dr. Russell's tests in 1974.

Now, in 1975, Dr. Russell wants to test the effectiveness of the antihelminthic drug he thinks might cure cold sores. The drug has been in use for almost 20 years as a treatment for worms (it paralyzes them in the digestive tract and they are excreted); hence the term "antihelminthic." The discovery that it also is effective in treating cold sores was accidental. During its use in the tropics it was found that the incidence of infections in patients dropped. Yet it never has been used in a control situation with regard to *herpes*, and this is what Dr. Russell proposes to do.

Volunteers will be treated for a period of six months. Only three of those months will involve use of the actual drug; the other three months will involve a placebo. But only Dr. Russell will know which is which. The reason for the control is the erratic, often spontaneous occurrence of cold sores. As most sufferers know, any number of situations can stimulate cold sores, from emotional upsets to too much sun. Thus the three-month split in the tests.

Dr. Russell and his colleagues will see patients three times: before the test begins; after three months; and after the trial is completed. Patients will have to take the drug three consecutive times per week—say a Monday, Tuesday, and Wednesday, at whatever time is convenient (and least forgettable). They will be asked to keep a record of cold sore occurrences, so as to provide a correlation between the real drug or placebo and outbreaks. The results should

tell Dr. Russell more or less definitely whether or not the antihelminthic works.

"Now I wouldn't want anybody to think that I am offering them a cure—I might be, but I really just don't know," cautioned Dr. Russell. "It may be that if it does work it will be effective only while patients are taking the drug. If this is so you could argue that the inconvenience of taking a pill regularly isn't worth the trouble. But it's definitely possible, at least theoretically, that the drug could act indefinitely, after patients have been on it for a while, to eliminate the *herpes*. But I really can't offer a guarantee."

Dr. Russell would like volunteers who have cold sore recurrences at least twice yearly. Remember, you will be acting not only in your own interest but in that of medicine as well. You can begin almost anytime in the next few months. Simply call Dr. Russell's office at 432-6296. He'll be very glad to hear from you.



There are theorists who claim that the best way to learn to use the metric system is by "total immersion." Forget the cumbersome, inconsistent British units and fully embrace the rational, orderly SI System (Système International d'Unités). On September 1, 1975 there is a possibility that Canadians, maybe even Edmontonians,—even if they do not suffer total immersion—may get at least a little wet, and they will get wet in metric precipitation. On that date, as part of the Metric Commission's schedule of changes to the metric system, precipitation reports will be given in SI units: millimeters for rain, and centimeters for (let us hope not on September 1) snow.

The people at the Weather Bureau are not as certain about this change as one would expect, but so far as they have heard, the changeover will take place as planned. There is a singular lack of information about this particular phase of the schedule. Possibly the Metric Commission is relying on the element of surprise; under the pressure of trying to judge what 30 mm of rain is, for example, people

may discover a natural faculty for understanding SI units. If not, they will probably discover that metric rain is just as wet as British-system rain. This, too, may be part of the plan: to make people aware of the metric units of length without forcing them to make complex and difficult transitional measurements and judgments.

The standard unit of length in the metric system is the *meter*. A decimal system of measurement was first developed by Gabriel Mouton, the vicar of St. Paul's Church in Lyons, France in 1670. France adopted the system in 1795, and at that time the meter was defined as one ten-millionth of the distance from the North Pole to the equator following the meridian which runs near to Dunkirk, Paris, and Barcelona. Now, the official standard of the meter is just as hard to visualize though it is seemingly more precise: 1,650.763.73 wave lengths in vacuum of the orange-red line of krypton 83. It is better, however, to think of the meter as being about three and a half inches longer than a yard. It is not advisable to convert back and forth from metric to British, of course, but sometimes, in the short run, it is helpful.

The meter itself can be divided into smaller units or submultiples. Centimeters and millimeters are submultiples. The smaller units are determined by multiples of ten, and they are named using Latin prefixes which indicate the number of tens. It is important to remember that these prefixes indicate groups of ten to negative powers; or more simply, these prefixes indicate units smaller than the meter. *Deci* is ten to the minus one, and indicates that there are ten such divisions in a meter. *Centi* is ten to the minus two, and indicates that there are one hundred such divisions in a meter. Taking this further, there are also 10 centimeters in each decimeter. *Milli* is ten to the minus three, and indicates that there are 1000 such divisions in one meter. There are also 10 millimeters to each centimeter, and 100 millimeters to each decimeter. In other words, a millimeter is one one-thousandth of a meter, and a centimeter is one one-hundredth of a meter. The whole system operates by multiples of tens, and changes from millimeters to centimeters to meters and so on are achieved by moving

decimal points (that is, by multiplying or dividing by ten). The units above the meter on the metric scale are prefixed by Greek names for the various multiples of ten: *deca* (10s); *hecto* (100s); and *kilo* (1000s). There are 10 meters in a decameter, 100 meters in a hectometer, and 1000 meters in a kilometer. Kilometer will be the most used large unit of measurement, replacing miles. By September of 1977, the Metric Commission expects to have converted all road signs to kilometers. Notwithstanding that, motorists example, should take note that it is easier to jog in kilometers. Notwithstanding that, motorists should not expect a miraculous saving in their gasoline expenses. For the time being, however, the focus is on millimeters and centimeters.

A centimeter is approximately 0.4 inches, or more clearly, an inch is roughly equal to 2.5 cm. A millimeter, being 10 times smaller than a centimeter, is equal to 0.04 inches, or there are 25.0 mm in an inch. A centimeter is roughly the width of the ordinary paper clip. The average yearly rainfall in Edmonton is approximately 12.34 inches. At 25 mm per inch, the metric equivalent is approximately 308.5 mm average rainfall. That is, of course, 30.9 cm of rain. The average yearly snowfall is somewhere around 52.9 inches which is equivalent to about 132.3 cm of snow, or 1,322.5 mm.

Such conversions are no doubt interesting and fun, but it is far wiser to try not to make them. The best thing is to become accustomed to using only one system of measurement, and to think in that system. Nevertheless, even if you do not understand the complexities of metric snow and rain reports, you can always look out your window and judge by more primitive means whether you need to wear your raincoat or galoshes, or to take an umbrella, or to phone in sick for work.

## SUMMER SESSION 1975

*The following report was received from S.C.T. Clarke, Director, Special Sessions.*

Since 1970, when Summer Session enrolment was 4,612, it has declined each year to 3,578 last year. It appears, however, that the 1975 enrolment may be up from this figure. Students enrolled in the Faculty of Education constituted 70 percent of the 1970 enrolment, but the proportion has decreased each year to 56 percent in 1975. Proportions for Arts, Science, and Graduate Studies have remained fairly constant, but the proportion enrolled in Business Administration and Commerce and in Physical Education has increased markedly.

Six different courses were offered abroad in Summer Session 1975, ranging from clothing and textiles (focused on native weaving) in

Guatemala to early childhood education (focused on British practices) in various parts of Great Britain.

Two hundred thirty five instructors were involved in teaching the 167.5 sections of full course equivalents offered. Fifty-four of the instructors were visitors, chiefly from other Canadian centres, from the US, and from Great Britain.

In the past, Summer Session fees exceeded direct expenditures, but with fees remaining constant and honoraria increasing, this is no longer the case.

About 2,000 students who were enrolled in the 1974-75 Winter Session attended both Spring and Summer Session in 1975, thus accelerating their progress toward a degree, or viewed from another perspective, making continuous or uninterrupted progress.

## EVENING CREDIT PROGRAM (OFF-CAMPUS)

*The following report was received from S.C.T. Clarke, Director, Special Sessions.*

The University of Alberta continues to offer degree credit courses at centres in northern Alberta, at the universities of Calgary and Lethbridge, and in the North. During the 1974-75 academic year there were forty-three different courses offered at twenty-five different centres ranging from Athabasca to Yellowknife. Just over half of the courses were offered by the Faculty of Education, and another third was offered by the Faculty of Arts. In previous years, these proportions were reversed.

The clientele continues to be mainly teachers, or persons in other professions. Of the 580 students registered in the program in 1974-75, there were 85 percent seeking a degree in Education. At the University of Calgary, courses in Nursing, Rehabilitation Medicine, and Household Economics have been offered in previous years. These courses are not within the mandate of the University of Calgary, so by offering them at Calgary and Lethbridge, the Evening Credit Program provides to people in other areas of the province some of the professional preparation reserved for the University of Alberta.

Instructors are normally University of Alberta staff who are teaching the same courses on-campus. Because the instructor honorarium is basically the same as that for spring and summer sessions, and because of the added cost of travel, the fee revenue fell short of direct expenditure by \$65,000 in 1974-75.

With the increased thrust toward serving the community, a conference on new directions for the Evening Credit Program was held in March. Some forty-five persons attended, including

the local contact person from the various centres, members of the Special Sessions Committee, and representatives of various groups. The participants concluded that the clientele is either changing or (as teachers become fully qualified) disappearing, and identified real communication difficulties between the University and its constituents. An immediate result of the conference was the preparation of an information brochure about the Evening Credit Program.

## VISITORS

- E.D. Gilles, Head of the Institute of System Dynamics and Control at the University of Stuttgart, presented a seminar to the Department of Chemical Engineering.
- Peter Riley, University of Texas, spoke at the Nuclear Research Centre on the neutron experiments being carried out at the Los Alamos Meson Production Facility.
- R. Rockmore, Rutgers University, New Brunswick, N.J., gave a talk at the Nuclear Research Centre on threshold pion production by pions on nucleons and light nuclei.

## PEOPLE

- R.T. Coutts, Professor of Pharmacy and Pharmaceutical Sciences, has been elected a Fellow of the Royal Institute of Chemistry.
- R.G. Ironside, Professor of Geography, has accepted an invitation to hold the position of Visiting Professor at the University of Newcastle-upon-Tyne, England.
- R.J. Buck, Professor of Classics, has been awarded a Senior Fellowship at the Canadian Cultural Institute in Rome. The fellowship extends from January to July, 1976, during which time Dr. Buck will pursue research in archaeology in Southern Italy.
- Michael B. Wahn, a doctoral student in the Department of Sociology, has been awarded a National Health Student Fellowship for the academic year 1975-76. The award is granted under the National Health Research and Development Program.

## NOTICES

### VOLUNTEERS NEEDED FOR LUNG FUNCTION TESTING

The Department of Medicine needs healthy non-smokers between 25 and 80 years of age to assist in establishing the normal standards for a new lung function testing procedure. The

test is painless, requires little effort, and will take only 40 minutes of your time. For additional information and appointment please phone Dr. R.L. Jones at 432-6475 or 432-6216.

### "ON CAMPUS AND OFF" EVENTS POSTER

The Publications Office will begin printing the "On Campus and Off" Events Poster again this year on September 20. The poster is printed and distributed as a free service to the University and the community. It covers essentially the same material as the *Folio's* "This Week and Next" column, but it reaches a wider audience. We invite you to send us information about upcoming events such as plays, films, lectures, poetry readings, concerts, art exhibitions, sports events and so on which are either on or near campus, or which involve or are of interest to University people. The posters are displayed throughout the campus, and in various places around the city such as the art gallery, libraries, high schools and colleges, and some shopping centres and similar public places.

In keeping with our printing schedule we ask that you notify us of events approximately one month prior to the event's date. For example if a play is to occur on October 3, it will be included on the poster which covers the period of September 20 to October 5. The notice for that event must reach us by September 8. If we can be of any assistance in publicizing your event please call Greg Hickmore at 432-4991, or send a notice to the Publications Office, 326 Assiniboia Hall.

### PUBLIC SEMINAR TO BE HELD ON FUTURE GROWTH PATTERNS IN ALBERTA AND THE WESTERN WORLD

In recent years, more and more serious thought has been generated toward the search for practical economic policies for governments to pursue at local, national, and international levels. The viewpoints of two well-known critics will be presented in a one-day public seminar September 5 on campus. In addition, the Honorable William Yurko, Alberta's Minister of Housing and Public Works will be the evening speaker.

Opening at 9:30 a.m. Garrett Hardin, a professor of Human Ecology at the University of California at Santa Barbara will be the guest speaker. At 2 p.m. Herman Daly, of Louisiana State University's Department of Economics will speak. Following each talk, a number of respondents will address the speaker after which discussion will be opened to the floor. Among the respondents will be Mel Hurtig, Past Chairman for an Independent Canada, Nick Taylor, Leader of the Alberta Liberal Party, and Donald Quon, Associate Dean of Engineering, the University of Alberta. The seminar will be held in the multi-media

room, Education 2-115. Sponsors of the seminar are the University of Alberta Students' Union Special Events and the Interdisciplinary Committee for Environmental Quality in co-operation with the University of Alberta and the Department of Extension.

### GFC REVIEW COMMITTEE VACANCIES

The GFC Nominating Committee is seeking nominations for the following Review Committees:

1. Chairman of the Department of Pediatrics;
2. Chairman of the Department of Obstetrics.

Regulations governing the composition of Review Committees for Department Chairmen require that one member, not a member of the Department concerned, be elected by the General Faculties Council.

Those who have suggestions for nominations or who are interested in serving on the above committees are requested to call the Secretary of the Nominating Committee, Mrs. P. Campbell, 2-1 University Hall, at 432-4965.

### EDMONTON FOLK ART

The Edmonton Art Gallery is currently planning an exhibition for November to feature the stuccoed and painted doorways of houses built in Edmonton in the 30s, 40s, and 50s. The exhibition, entitled "Edmonton Entrances", will focus on stucco imitations of stone masonry which have been painted. The Art Gallery is researching the history and origins of this sort of "folk art", and is curious to know what prompted people to paint their doorways in this way. Anyone who has any information or theories as to why painting of doorways got started in Edmonton is asked to call the curator organizing this display, Lelda Muehlenbachs, at 429-6781.

### ARTS AND CRAFTS CENTRE FALL EXHIBITION AND SALE

The Students' Union Arts and Craft Centre is holding a fall exhibition and sale of weaving, batik, ceramics, macramé, and jewelery. The sale and exhibit will be held in the Students' Union Art Gallery from Saturday, September 6 to Friday, September 12 between noon and 6 p.m.

### ARTS AND CRAFTS CENTRE FALL SESSION CLASSES

Registration for the fall session of classes (September 22 to November 29) of the Students' Union Arts and Crafts Centre will be held at the Craft Shop (main floor, east hallway of the Students' Union Building) from September 2 to September 20. The Craft Shop is open from 10 a.m. to 5:30 p.m. Monday through Saturday. Registration will also be taken at the Fall Exhibition and Sale at the Students' Union Art Gallery on Saturday, September 6 and Sunday, September 7. For further information phone the Students' Union Arts and Crafts Centre at 432-4547.

#### LUNCETIME TALK

Garrett Hardin, who will be participating in the one-day public seminar mentioned above, will give a 40 minute talk entitled "Lifeboat Ethics" at 12:30 p.m. September 4 in Room at the Top, Students' Union Building.

#### FALL AQUATIC PROGRAM

Applications are now being accepted for the Fall Aquatic Program. Registration is by mail only and closes September 18. On that day, if there are any openings, registration will be accepted in person only from 6 to 8 p.m. All staff members and their families who are not enrolled as students will require swimming pool privilege cards which must be obtained beforehand in Room 116 of the Physical Education Building. Application forms can be obtained in Room 116 or the Pool Office.

#### RICHARD EATON SINGERS

The Richard Eaton Singers will be holding auditions on September 2 at 7:30 p.m. in 129 Fine Arts Building. The singers are under the direction of Larry Cook of the Department of Music, and will perform concerts in mid-December and early April at All Saints Cathedral. There are openings in all sections, but especially in the bass and tenor sections. Everyone is invited to come and audition.

Rehearsals for the December production of Bach's "Magnificat" will begin on September 9 and continue each Tuesday after that. Auditions will continue throughout September. For further information call Anne O'Grady at 467-6177, Ian Hay at 433-2635, or Larry Cook at 482-4068.

#### SATURDAY MOVEMENT EDUCATION PROGRAM

The Department of Educational Services of the Faculty of Physical Education is offering Saturday morning movement classes for children between the ages of two and eight. A 9 a.m. class will be held for three, four, and five year-olds only; the 10 a.m. and 11 a.m. classes will be held for three separate age groups: six, seven, and eight year-olds; four and five year-olds; and two and three year-olds.

Fall classes begin on September 20 in the Education Gymnasium. The fee per session is \$10. For further information and registration please call 432-3652.

#### NASA MIXED CURLING LEAGUE

All NASA members interested in curling in the Mixed League are invited to attend an organizational meeting on Tuesday, September 9 at 12 noon in 855 General Services Building. This year the league will curl on Monday nights at 7 p.m. in SUB. For further information, call Brian McCallam at 432-4121, Dennis Nolin at 432-1183, or Brian Forester at 432-5637.

#### SCIENCE, TECHNOLOGY, AND THE FUTURE

The Alberta Branch of the Canadian Society of Laboratory Technologists will host a lecture, as part of the Annual Provincial Convention, by David Suzuki entitled "Science, Technology and the Future." Dr. Suzuki is a well-known entomologist and host of the CBC series "Science Magazine" and "This Week in Science." The lecture will take place in the Alberta Room of the Edmonton Plaza Hotel on Saturday, September 13 at 1:30 p.m. A limited number of tickets are available at \$4 each from Mrs. S. Irwin, Registration Chairperson, 7606 153 Street, Edmonton.

### THIS WEEK AND NEXT

*Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.*

#### 28 AUGUST, THURSDAY

##### Gallery Cinema

7:30 p.m. *The Landlord* (United States, 1970). Directed by Hal Ashby with Beau Bridges, Lee Grant and Pearl Bailey. Downstairs, Edmonton Art Gallery. Admission \$2.

#### 29 AUGUST, FRIDAY

##### Faculty Club

*Downstairs.* "Parker's Pizzaria." Pizzas, salads, and spumoni. \$3.25. Entertainment: Gaby Haas.

*Upstairs.* Regular dinner menu. Reservations required.

##### Concert

9 p.m. A concert by the well-known Indian musician, Mr. Kapileshwari, in the Lounge, 14th floor, Tory Building. Tickets \$2 at the door; students \$1.

#### 30 AUGUST, SATURDAY

##### Faculty Club

*Downstairs.* "Patio barbecue." Beef shishabob, rice, and salad buffet. \$3.25.

*Upstairs.* Regular dinner menu. Reservations required.

#### 31 AUGUST, SUNDAY

##### Gallery Cinema

2 p.m. *Pygmalion*. (Great Britain, 1938). Directed by Anthony Asquith and Leslie Howard, starring Leslie Howard and Wendy Hiller. Downstairs, Edmonton Art Gallery. Admission \$2; children 12 and under, half price.

##### 'In Touch with U'

*And every Sunday. 5 p.m. A program to*

introduce the University to the community at large. CITV channel 13, cable 8.

#### 3 SEPTEMBER, WEDNESDAY

##### Gallery Cinema

7:30 p.m. *The Young One* (Mexico, 1960). Directed by Luis Bunuel, with Zachary Scott. Downstairs, Edmonton Art Gallery. Admission \$2.

#### 4 SEPTEMBER, THURSDAY

##### Gallery Cinema

7:30 p.m. *How Tasty Was My Little Frenchman* (Brazil, 1971). Directed by Nelson Pereira Dos Santos. Downstairs, Edmonton Art Gallery. Admission \$2.

#### 6 SEPTEMBER, SATURDAY

##### Football

2 p.m. The University of Saskatchewan versus the Golden Bears at Varsity Stadium.

### EXHIBITIONS AND PLAYS

##### University Art Gallery and Museum

*Until 4 September.* Two MVA presentations. An exhibition of sculpture by Lylian Klimek, and an exhibition entitled "An Introduction to Graphic Communication" by Greg Pryrocki. University Art Gallery and Museum, Ring House No. 1. Open to the public. Gallery hours, 11 a.m. to 4 p.m. weekdays; closed weekends.

##### Edmonton Art Gallery

*Throughout the summer.* The Gallery's Summer Exhibition. Works drawn from the Permanent Collection and from the MacAuley, Scrymgeour, and other private collections. There is also a small exhibition of works with a Western theme.

*Until 31 August.* "An exhibition of decadence: the works of Dutch painter Kees Van Dongen," and "The history of ceramics in Alberta" with demonstrations organized by the Edmonton Potters' Guild. The demonstrations will be held every Saturday from 2-4 p.m. in the Ceramic Room of the Education wing.

*Until 30 August.* "Prairie landscapes," a collection of watercolors, drawings, oils and acrylics by Western Canadian artists.

*Opening 4 September.* "Canadian Painting in the Thirties," a travelling exhibition organized by the National Gallery of Canada displays work by such artists as A.Y. Jackson, Emily Carr, David Milne, Goodridge Roberts, John Lyman, Paraskeva Clark and others.

*4 September to 26 September.* Exhibition of works by Calgary artist J.D. Turner, a close associate of the Group of Seven, featuring oils and watercolor sketches of rural Alberta subjects.

**Provincial Museum**

Until 2 September. "Craft carousel." Daily historic craft demonstrations such as quilting, rug-hooking, weaving, etc. From 1:30 to 3:30 p.m. weekdays and from 1:30 to 4:30 p.m. weekends. 12845 102 Avenue. Feature Gallery number 3.

Continuing. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery. Until 1 September. "Eskimo History" a display of whalebone and stone weapons, tools, and utensils. Also some prints by Eskimo artists. Feature Gallery 2.

Continuing. "Ukrainian Churches in Alberta," a selection of paintings of Ukrainian churches by Parasja Iwanec.

**Rutherford House**

Throughout the summer. Daily from 10 a.m. to 8 p.m. The refurbished home of Alberta's first Premier. 11153 Saskatchewan Drive. Admission free.

**Northern Light Theatre**

Until 5 September. *Cecile or a School for Fathers* by Jean Anouilh. Curtain time: 12:10 p.m. Extra showing at 1:15 p.m. Wednesday, Thursday and Friday. Edmonton Art Gallery, downstairs. Admission \$1.50. Food can be purchased in the lobby, courtesy of the Hot Box Restaurant.

**Plaza Players**

Free theatre six days a week, weather permitting. Monday to Friday, 12 to 1 p.m.;

Thursday and Friday nights special performances, 7:30 to 8:30 p.m.; Saturday, special children's show from 12 to 1 p.m. Centennial Library, south plaza. Plays vary from week to week.

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**POSITIONS VACANT**

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**NON-ACADEMIC STAFF**

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly.

Clerk Typist I (\$467-\$576)—University Health Service; Faculty of Engineering  
Clerk Typist II (\$505-\$627)—Music; Central Stores; Education Administration; Elementary Education; Office of the Registrar; Classics; Sociology; Animal Sciences; Romance Languages; Provincial Laboratory; Computing Services (Operations); Computing Services (Systems); Office of Administrative Systems; Purchasing  
Clerk Typist II (term) (\$505-\$627)—Division of Field Experience  
Clerk Typist III (\$576-\$713)—English; School of Nursing; Soil Science; Physical Plant  
Clerk Steno I (\$485-\$599)—Education Administration  
Clerk Steno II (\$527-\$653)—Division of Field Experience; Elementary Education; Business Administration and Commerce; Psychology  
Clerk Steno III (\$599-\$744)—Sociology; Clinical Services; Education Faculty; Pharmacology; Psychiatry; Faculty of Law; Physics; Campus Development Office; University Health Service  
Clerk Steno III (trust) (\$599-\$744)—McLaughlin Examination and Research  
Medical Steno (\$653-\$814)—Pediatrics (2 positions); Internal Medicine  
Secretary (part-time) (\$638-\$853)—Division of East European & Soviet Studies

Secretary (\$683-\$853)—Psychology; Geography; Chemistry

Library Clerk III (\$576-\$713)—Art and Design

Library Clerk II (term) (\$527-\$653)—Music

Clerk (term) (\$467-\$576)—Dentistry

Senior Clerk (\$576-\$713)—Printing Services

Student Record Processing Clerk (\$627-\$779)—Business Administration and Commerce

Cutter Seamstress (\$599-\$744)—Drama

Duplicating Equipment Operator I (\$505-\$627)—Duplicating Services

Computer Operator I (\$744-\$932)—Computing Services

Laboratory Assistant III (\$627-\$779)—Pediatrics

Technologist II (trust) (\$1,000/mo.)—Pediatrics

Assistant Control Clerk (\$467-\$576)—Computing Services

Analyst (\$1,171-\$1,474)—Computing Services

Laboratory Assistant I (\$467-\$576)—Provincial Laboratory

Programmer II (\$932-\$1,171)—Office of Administrative Systems

Laboratory Assistant I (part-time) (trust) \$345/mo.)—Cancer Research

Audiovisual Assistant (term) (\$576-\$713)—Health Science, Audiovisual Centre

Laboratory Technologist I (\$779-\$975)—Provincial Laboratory

Biologist Technologist II (\$932-\$1,171)—Genetics

Purchasing Clerk II (\$551-\$683)—Purchasing (2 positions)

Accounts Clerk III (\$814-\$1,020)—Office of the Comptroller

Analyst (\$1,171-\$1,474)—Health Sciences, Computer Application

Computer Assistant I (\$527-\$653)—Computing Services

Technologist II (\$932-\$1,171)—Zoology

Equipment Assistant I (\$653-\$814)—Physical Education (3 positions)

Personnel Assistant (\$932-\$1,171)—Physical Plant Administrative Assistant (\$932-\$1,171)—Business Administration and Commerce

Technician I (trust) (\$713-\$891)—Soil Science

Technician III (\$932-\$1,171)—Mineral Engineering

Laboratory Assistant III (\$627-\$779)—Botany

Graphics Technician I (\$713-\$891)—Technical Services

Storeman II (\$683-\$853)—Central Stores

Dental Records Clerk (\$576-\$713)—Dentistry

The following is a list of currently available positions in the University Library. The bulletin board postings in the Library Personnel Office, 516 Cameron Library should be consulted for further information as to position requirements and availability.

Library Clerk I (\$485-\$599)—Acquisitions

Library Clerk II (\$527-\$653)—Circulation

Library Clerk III (\$576-\$713)—Cataloguing; Acquisitions

Library Assistant I (\$627-\$779)—Cataloguing

**OFF-CAMPUS POSITIONS**

**Research Fellow/Senior Research Fellow**

**The Australian National University**

**Canberra, Australia**

Applications are invited for the position of Research Fellow/Senior Research Fellow in the Department of Nuclear Physics of the Research School of Physical Sciences. The Department, headed by J.O. Newton, carries out research in nuclear structure physics, with the present main areas of research being heavy-ion interactions, direct interactions, and nuclear spectroscopy. *Salary:* will be in accordance with qualifications and experience within the ranges: Senior Research Fellow \$16,602 to \$19,374; Research Fellow \$11,655 to \$15,540 (\$A1—\$US1.33). Reasonable travel expenses are paid and assistance with housing is given to appointees from outside Canberra. Superannuation benefits are available. *Tenure:* normally for three years with a possibility for an extension to five years. Further information can be obtained from

## folio accepts display advertising

*Size and rates:* the basic unit size is 45 agate lines x 15 picas (3 1/4" x 2 1/2"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2 1/2" x 1 1/2") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

*Other specifications:* half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

*Contact:* David C. Norwood, 325 Assiniboia Hall, The University of Alberta; telephone 432-4991.

G.E. Dicker, Academic Registrar, The Australian National University, PO Box 4, Canberra, ACT, 2600, Australia. *Closing date:* September 29, 1975.

## PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week, and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance.

We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

### Accommodation available

Thinking of selling your home? Today's real estate market fluctuates. Make sure you receive top value. Call a professional. Call Ross Lizotte, Buxton Real Estate Ltd. 436-1140, 426-5880 extension 990.

For rent—a new three-bedroom house in St. Albert. 434-1598.

For sale—two-storey family home in Glenora; three bedrooms and den; two baths; double garage; newly-decorated lower level with fourth bedroom.

Professionally landscaped and maintained. \$85,000. Call 6-8 p.m. weekdays only, 452-9464.

For sale—By owner. Belgravia—University; river-valley view. 11826 74 Avenue. Choice neighborhood. Large beautifully landscaped two-storey. Spanish stucco; four bedrooms, den, interesting rumpus room, three-car garage. Close to schools, shopping, transportation. Ideal family home. Call 436-1179 for appointment. Principals only.

For rent—Grandin Village in quiet St. Albert. 3 bedrooms, 1,300 sq. ft. Fridge, stove and curtains. September 1. Indoor pool, tennis courts, skating rinks available. 30 minutes from University. 459-3648.

For rent—January-July 1976. 4 bedroom house, Windsor Park. Suitable for children. 439-3766, after five.

For sale—By owner. Choice lot in Arizona. Priced for quick sale. Trade for car or land in Canada considered. 435-7126 evenings.

For sale—Two bedroom bungalow 85 Ave-110 Street. Very well kept; good home and investment. This home won't last! 433-3273 after 5:30 p.m.

For rent—Three bedroom house with basement, double garage, large yard. In Riverbend. Appliances included. Available September 1. \$400 1-742-3547 evenings.

For sale—Fully winterized and soundproof A-frame structure. 18' x 18' with gas heater and electric power. Perfect for quiet studio or office. 432-3904 days; 435-1540 evenings.

To sublet—To responsible staff or graduate student. One bedroom suite in high-rise. Furnished. 3 blocks from University. Occupancy until April 30. 433-9208.

For sale—Well kept 2-b.r. bungalow within walking distance of University. Kitchen features built-in stove and oven. This clean house is located on a quiet street and is tastefully landscaped. Downstairs is a 2-b.r. suite with separate back entrance. Single car garage as well, makes this a good buy. Call Norm Paul, Melton Real Estate Ltd. 439-3995. Res. 467-0300.

For rent—Large house 111 street-83 Avenue. Will be rented by the month. Available in September. \$450. 435-4547.

### Accommodation wanted

Accommodation wanted. Chemist, married, no children moving to Edmonton mid-October. Interested in taking care of house for someone on sabbatical. Phone 432-3802 or write c/o Dr. O.P. Strausz, Department of Chemistry.

### Goods and services

HUB Beauty Salon—telephone 433-0240. Winner of award. \$40 perms now \$25. HUB mall.

Typing done—Fast, efficient service. Georgina Campbell, 489-4810 evenings.

For sale—Antiques from England, dining tables, chairs, buffets, display cabinets, bookcases, loo tables, clocks, lamps, brass, copper, porcelain, glass, curios. Mary Goulden Antiques, Horsehill Hall, 5 miles north on Highway 15, then 1½ miles east. Open 1-6 including weekends.

Wanted—Children 3 - 5. McKernan Park Daycare, 11125 76 Avenue. Opening September 2. 466-1508.

Fresh natural honey delivered in quantity. 487-1167, evenings.

Interesting low-cost tours for university scholars. Also round-trip excursions: geographers, historians and men and women with interest in world religions. Kabul, Afghanistan, New Delhi. \$700 and up (cost of living less than \$5 a day). 429-1079 Indus Tours.

For sale—Admiral avocado stove and fridge. Three years old. \$425. 466-6789 evenings.

Windsor Park Co-op. Nursery School. Openings for three and four-year olds. Phone 452-0814 or 439-5484. Reliable, responsible person required to come in for daily care of one young baby; beginning September. Call 432-4172, 9-11:30 a.m.

Urgently needed—Responsible person to look after three small children for four to eight hours a week. Belgravia area. 436-4663.

### Automobiles and accessories

For rent—Garage opposite Mackenzie Hall. Available September 1. 439-3025 evenings.

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